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**C22C 5/06****C23C 14/24****C23C 14/34****G11B 7/24****G11B 7/26**(21)Application number : **2002-105435**(71)Applicant : **SUMITOMO METAL MINING CO LTD**(22)Date of filing : **08.04.2002**(72)Inventor : **SHIMIZU JUICHI****(54) SILVER ALLOY THIN FILM AND SILVER ALLOY FOR FORMING THIN FILM**

(57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a silver alloy thin film which has a high reflectivity, is excellent in the uniformity of the reflectivity, and also has a reduced change with the lapse of time, i.e., the one which is suitably used for a reflection film of an optical recording disk dealing with high recording density or of a display device dealing with a high definition screen, and to provide a silver alloy which is suitably used for forming the silver alloy thin film.

**SOLUTION:** The silver alloy thin film contains 0.01 to 0.1 atomic % of one or more kinds of metals selected from Pd and Pt, and, if required, containing one or more kinds of metals selected from Zn, Mg and Cu, and the balance Ag with inevitable impurities. The silver alloy suitably used for the production of the same has the same componential composition.

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